

Product datasheet for **SC303041**

Orexin (HCRT) (NM_001524) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Orexin (HCRT) (NM_001524) Human Untagged Clone
Tag:	Tag Free
Symbol:	Orexin
Synonyms:	NRCLP1; OX; PPOX
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL6</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene sequence for NM_001524 edited GGTACCAGACACCATGAACCTTCCTTCCACAAAGGTCTCCTGGGCCGCCGTGACGCTACT GCTGCTGCTGCTGCTGCCGCCGCGCTGTTGTCGTCGGGGCGGCTGCACAGCCCT GCCCCACTGCTGCTGCTCAAAGACTTGCTCTTGCCGCCTCTACGAGCTGCTGCACGGCGC GGGCAATCACGCGGCCGGCATCCTCACGCTGGGCAAGCGAGGTCCGGGCCCCCGGGCCT CCAGGGTCGGCTGCAGCGCCTCCTGCAGGCCAGCGGAACACGCGCGGGCATCCTGAC CATGGGCCCGCGCAGGCGCAGAGCCAGCGCCGCGCCCTGCCTCGGGCGCCGCTGTTCC CGCCCCGGCCCGCCCTCCGTCGCGCCCGGAGGACAGTCCGGGATCTGAGTCGTTCTTCG GGCCCTGTCTGGCCAGGCCTCTGCCCTTGCCACCCAGCGTCAGCCCCAGAAAAA GGCAATAAAGACGAGTCTCCATCTAGA
Restriction Sites:	Please inquire
ACCN:	NM_001524
Insert Size:	500 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	The open reading frame of this clone has been fully sequenced and found to be a perfect match to the protein associated with this reference, NM_001524.1.
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).



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Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_001524.1](#), [NP_001515.1](#)

RefSeq Size: 577 bp

RefSeq ORF: 396 bp

Locus ID: 3060

UniProt ID: [O43612](#)

Cytogenetics: 17q21.2

Protein Families: Druggable Genome, Transmembrane

Gene Summary: This gene encodes a hypothalamic neuropeptide precursor protein that gives rise to two mature neuropeptides, orexin A and orexin B, by proteolytic processing. Orexin A and orexin B, which bind to orphan G-protein coupled receptors HCRTR1 and HCRTR2, function in the regulation of sleep and arousal. This neuropeptide arrangement may also play a role in feeding behavior, metabolism, and homeostasis. [provided by RefSeq, Jan 2010]